

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P507628

Luminaire Tested: **VERD-S-CA1-60-727-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-60-727-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1150mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6590 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

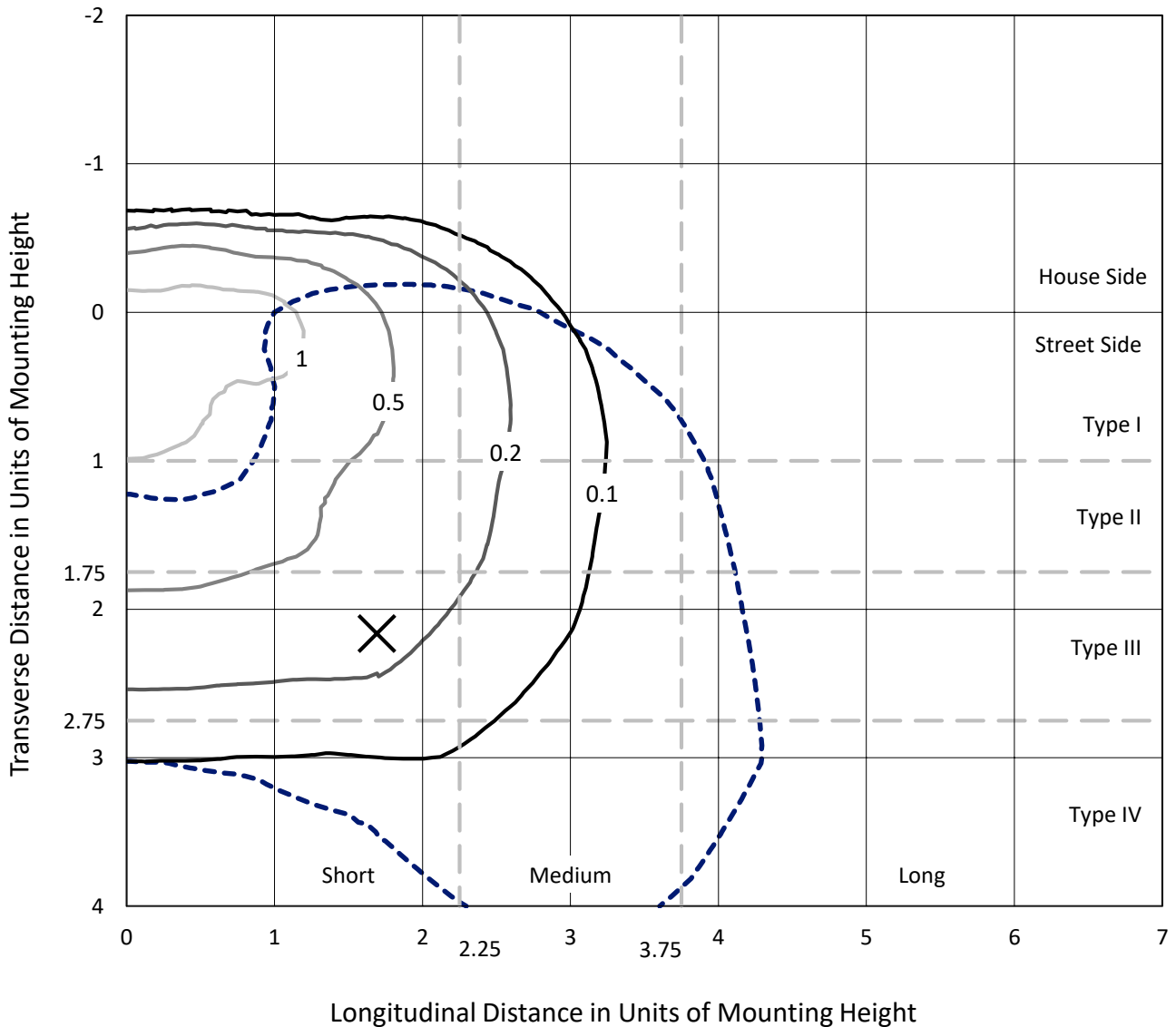
Input Watts (W): 63.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

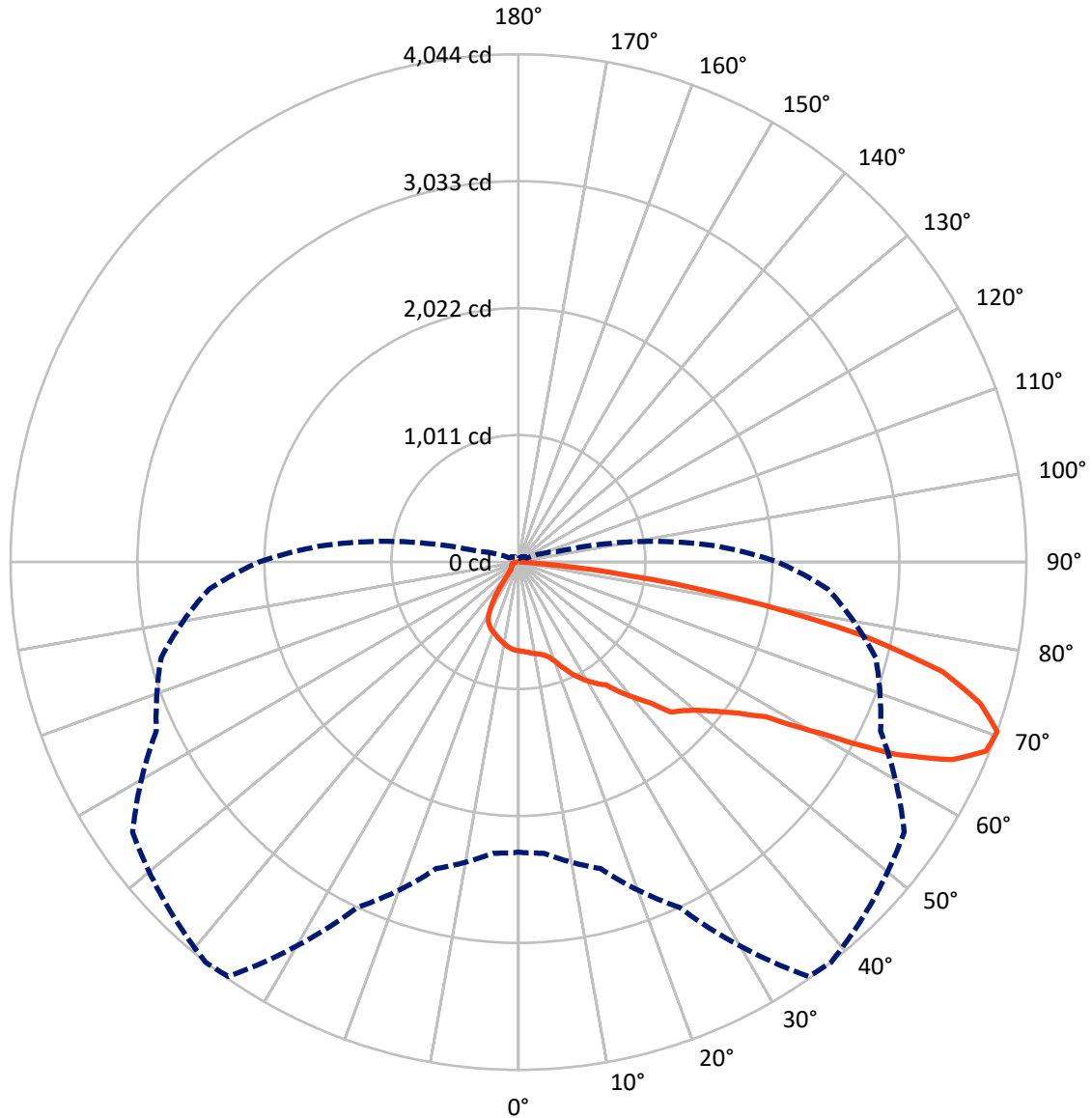
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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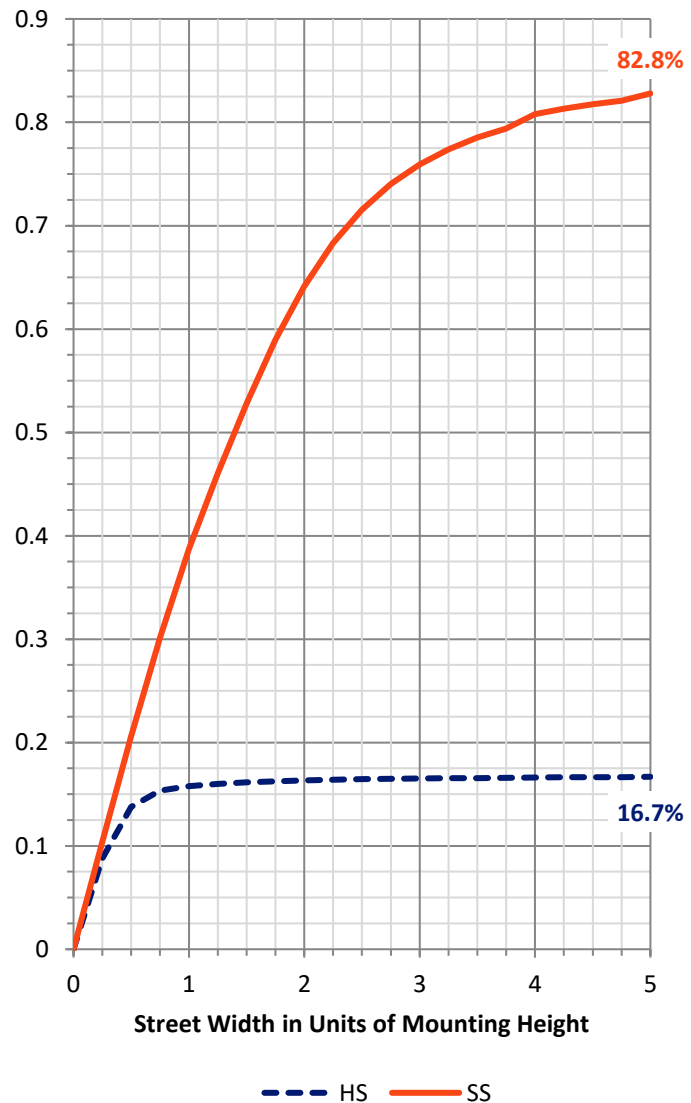
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1114.9	0.0	1114.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	5475.1	0.0	5475.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	6590.0	0.0	6590.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.0
10°-20°	204.7	3.1
20°-30°	376.8	5.7
30°-40°	589.8	9.0
40°-50°	896.1	13.6
50°-60°	1288.4	19.6
60°-70°	1730.9	26.3
70°-80°	1282.4	19.5
80°-90°	153.4	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6590.0	100.0
0°-180°	6590.0	100.0



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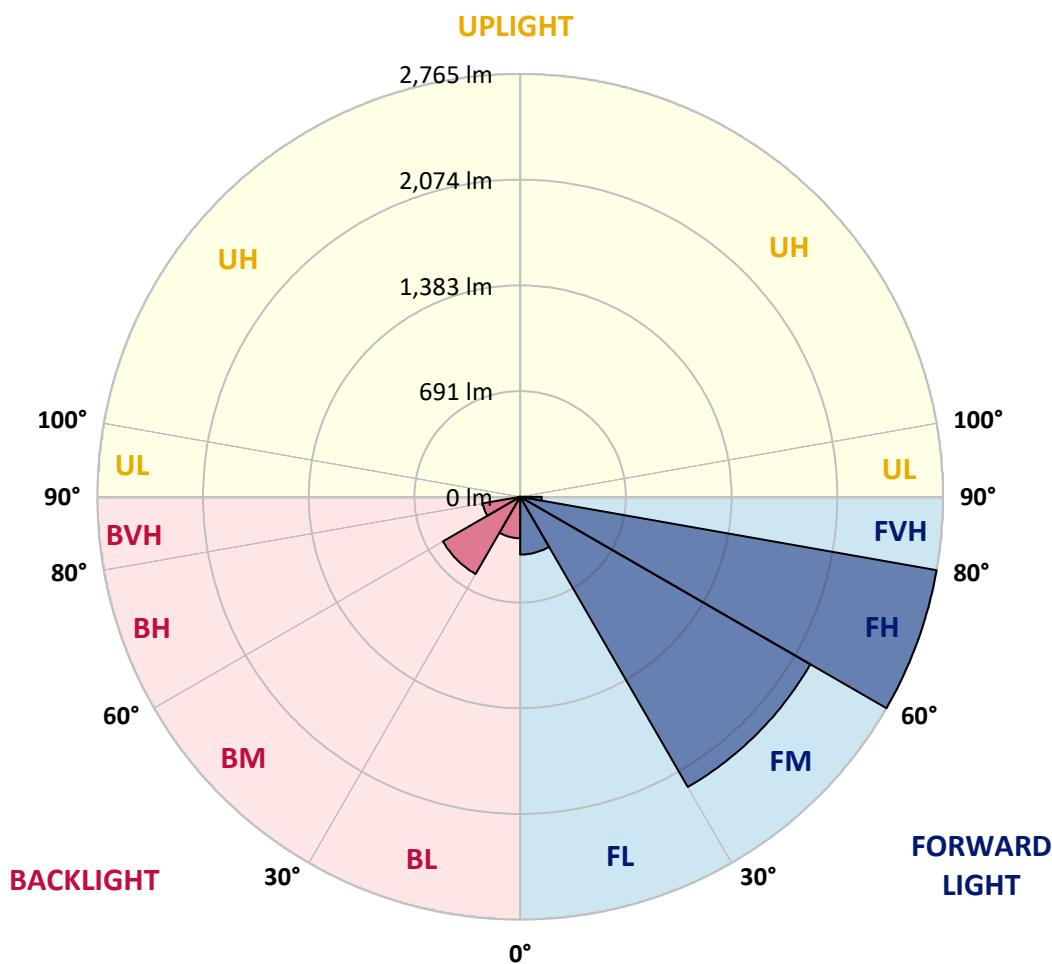
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.8	5.7			
FM	(30°-60°)	2191.1	33.2			
FH	(60°-80°)	2765.1	42.0			G2/5000
FVH	(80°-90°)	141.1	2.1			G2/225
BL	(0°-30°)	271.2	4.1	B1/500		
BM	(30°-60°)	583.2	8.8	B1/1000		
BH	(60°-80°)	248.2	3.8	B1/500		G1/500
BVH	(80°-90°)	12.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3
2.5°	716.8	716.8	716.8	714.7	714.7	712.6	712.6	710.5	710.5	708.4	706.3
5°	727.2	727.2	725.1	723.0	720.9	720.9	720.9	718.9	714.7	714.7	710.5
7.5°	731.4	731.4	731.4	731.4	731.4	731.4	731.4	729.3	727.2	725.1	720.9
10°	733.4	733.4	735.5	735.5	739.7	741.8	741.8	743.9	741.8	737.6	733.4
12.5°	739.7	741.8	741.8	743.9	750.1	752.2	754.3	760.5	760.5	756.4	752.2
15°	752.2	752.2	754.3	758.4	766.8	768.9	775.1	781.4	785.5	781.4	777.2
17.5°	789.7	789.7	789.7	789.7	793.9	795.9	804.3	814.7	818.9	818.9	816.8
20°	864.7	864.7	860.5	852.2	848.0	848.0	846.0	850.1	858.5	864.7	866.8
22.5°	950.1	948.0	946.0	933.5	918.9	914.7	910.5	906.4	910.5	921.0	925.1
25°	1016.8	1018.9	1016.8	1000.1	987.6	985.6	979.3	981.4	981.4	983.5	989.7
27.5°	1071.0	1075.2	1066.8	1058.5	1050.1	1043.9	1048.1	1054.3	1064.7	1060.6	1073.1
30°	1131.4	1129.3	1121.0	1110.6	1104.3	1102.2	1100.2	1123.1	1152.2	1164.7	1179.3
32.5°	1239.8	1237.7	1221.0	1168.9	1154.3	1154.3	1158.5	1187.7	1233.5	1273.1	1310.6
35°	1339.8	1339.8	1318.9	1283.5	1221.0	1202.3	1212.7	1248.1	1314.8	1393.9	1454.4
37.5°	1458.5	1460.6	1437.7	1383.5	1333.5	1314.8	1264.8	1314.8	1396.0	1548.1	1623.1
40°	1596.1	1591.9	1554.4	1496.0	1431.4	1416.9	1375.2	1385.6	1500.2	1729.4	1802.3
42.5°	1673.2	1669.0	1644.0	1598.1	1546.0	1529.4	1491.9	1481.5	1639.8	1929.4	1977.4
45°	1748.2	1752.3	1750.2	1727.3	1714.8	1704.4	1683.6	1685.7	1812.8	2127.4	2129.5
47.5°	1791.9	1800.3	1766.9	1764.8	1766.9	1766.9	1796.1	1854.4	1977.4	2296.2	2262.8
50°	1921.1	1912.8	1810.7	1814.8	1841.9	1854.4	1908.6	1994.0	2206.6	2442.0	2377.4
52.5°	2181.6	2123.2	1994.0	1931.5	1941.9	1973.2	2037.8	2160.7	2435.8	2585.8	2479.5
55°	2473.3	2448.3	2314.9	2154.5	2083.6	2123.2	2192.0	2321.2	2617.0	2708.7	2564.9
57.5°	2675.4	2685.8	2690.0	2560.8	2312.8	2325.3	2369.1	2481.6	2779.6	2833.7	2629.5
60°	2871.2	2885.8	2965.0	2946.2	2865.0	2773.3	2602.4	2640.0	2919.2	2923.3	2679.5
62.5°	3027.5	3035.8	3162.9	3221.3	3367.1	3373.4	3096.3	2858.7	3060.8	2987.9	2698.3
65°	2948.3	2971.2	3156.7	3333.8	3748.4	3794.3	3685.9	3137.9	3169.2	3017.1	2685.8
67.5°	2681.6	2719.1	2894.2	3300.5	3986.0	4017.2	3921.4	3644.3	3208.8	3006.7	2617.0
70°	2310.7	2327.4	2527.4	3033.8	4029.7	4044.3	3925.5	3750.5	3181.7	2946.2	2473.3
72.5°	1879.4	1898.2	2071.1	2608.7	3831.8	3844.3	3813.0	3667.2	3117.1	2833.7	2181.6
75°	1410.6	1439.8	1604.4	2037.8	3383.8	3490.1	3554.7	3492.2	2937.9	2460.8	1660.6
77.5°	931.4	933.5	1100.2	1539.8	2681.6	2787.9	2798.3	2746.2	2085.7	1544.0	737.6
80°	400.1	437.6	643.8	1033.5	1781.5	1800.3	1821.1	1683.6	1068.9	477.1	81.3
82.5°	133.4	147.9	270.9	545.9	877.2	898.0	860.5	745.9	300.0	64.6	45.8
85°	56.3	62.5	83.3	150.0	212.5	193.8	181.3	147.9	41.7	37.5	29.2
87.5°	2.1	2.1	2.1	2.1	4.2	2.1	4.2	4.2	6.3	6.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3	706.3
2.5°	706.3	706.3	706.3	704.3	704.3	702.2	702.2	700.1	700.1	700.1	700.1
5°	710.5	710.5	706.3	704.3	700.1	695.9	691.8	687.6	683.4	683.4	683.4
7.5°	718.9	716.8	710.5	702.2	693.8	683.4	677.2	668.8	664.7	660.5	662.6
10°	731.4	727.2	718.9	706.3	689.7	673.0	658.4	645.9	639.7	633.4	631.3
12.5°	748.0	743.9	731.4	712.6	687.6	662.6	639.7	620.9	608.4	602.2	600.1
15°	773.0	766.8	750.1	723.0	687.6	650.1	618.8	591.7	570.9	558.4	558.4
17.5°	812.6	806.4	783.4	745.9	695.9	643.8	595.9	550.1	523.0	508.4	506.3
20°	864.7	856.4	829.3	775.1	710.5	641.8	570.9	512.6	466.7	441.7	439.6
22.5°	925.1	918.9	877.2	806.4	725.1	637.6	552.2	475.1	410.5	364.6	354.2
25°	996.0	985.6	923.0	831.4	729.3	627.2	525.1	435.5	345.9	289.6	279.2
27.5°	1079.3	1056.4	964.7	850.1	727.2	606.3	493.8	379.2	262.5	220.9	214.6
30°	1168.9	1129.3	1006.4	862.6	714.7	573.0	439.6	283.4	189.6	164.6	158.4
32.5°	1271.0	1208.5	1043.9	864.7	687.6	527.2	348.0	193.8	135.4	120.9	118.8
35°	1393.9	1308.5	1083.5	856.4	648.0	452.1	241.7	131.3	100.0	95.8	95.8
37.5°	1554.4	1435.6	1127.2	831.4	587.6	350.0	160.4	89.6	87.5	89.6	89.6
40°	1723.2	1581.5	1181.4	793.9	510.5	252.1	102.1	83.3	83.3	85.4	85.4
42.5°	1883.6	1721.1	1250.2	743.9	423.0	162.5	83.3	79.2	77.1	79.2	81.3
45°	2019.0	1852.3	1316.9	689.7	323.0	104.2	81.3	75.0	70.8	72.9	72.9
47.5°	2139.9	1952.4	1354.4	625.1	227.1	81.3	81.3	68.8	64.6	64.6	66.7
50°	2242.0	2031.5	1375.2	550.1	143.8	79.2	72.9	64.6	60.4	60.4	58.3
52.5°	2327.4	2089.9	1373.1	466.7	93.8	77.1	68.8	60.4	54.2	56.3	56.3
55°	2392.0	2135.7	1341.9	358.4	79.2	72.9	66.7	56.3	52.1	56.3	56.3
57.5°	2442.0	2156.6	1283.5	250.0	77.1	66.7	62.5	52.1	47.9	50.0	50.0
60°	2467.0	2146.1	1191.8	156.3	75.0	64.6	58.3	47.9	43.8	41.7	43.8
62.5°	2458.7	2108.6	1060.6	104.2	70.8	60.4	54.2	45.8	39.6	35.4	35.4
65°	2408.7	2025.3	904.3	87.5	68.8	60.4	52.1	43.8	35.4	33.3	33.3
67.5°	2296.2	1852.3	670.9	81.3	68.8	58.3	50.0	41.7	35.4	31.3	31.3
70°	2064.9	1541.9	323.0	75.0	68.8	60.4	50.0	39.6	33.3	29.2	29.2
72.5°	1671.1	1089.7	83.3	64.6	66.7	60.4	52.1	39.6	31.3	27.1	27.1
75°	1089.7	523.0	70.8	52.1	60.4	56.3	50.0	39.6	31.3	25.0	25.0
77.5°	354.2	72.9	64.6	45.8	54.2	54.2	50.0	39.6	31.3	22.9	22.9
80°	56.3	52.1	56.3	35.4	39.6	45.8	39.6	37.5	29.2	20.8	20.8
82.5°	39.6	47.9	41.7	29.2	35.4	37.5	31.3	25.0	20.8	18.8	18.8
85°	29.2	31.3	25.0	22.9	27.1	31.3	25.0	18.8	16.7	16.7	16.7
87.5°	10.4	12.5	12.5	16.7	20.8	22.9	14.6	10.4	12.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)